

# (12) United States Patent Brockmann

## US 6,487,657 B1 (10) Patent No.:

#### (45) Date of Patent: Nov. 26, 2002

(54)	DATA COMMUNICATION NETWORK			
(75)	Inventor:	Ronald Alexander Brockmann, Utrecht (NL)		
(73)	Assignee:	No Wires Needed, B.V., Bitthoven (NL)		
(*)	Notice:	Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.		
(21)	Appl. No.:	09/252,308		

(21) Appl. No.: <b>09/252,308</b>

(22) Filed:	Feb.	18,	1999
-------------	------	-----	------

### (30)Foreign Application Priority Data

(30)	Foreign Application Friority Data							
Feb.	19, 1998 (NL)							
(51)	Int. Cl. <sup>7</sup>	<b>H04L 9/36</b> ; H04L 9/32;						
		H04K 1/10; H04H 1/12						
(52)		<b>713/154</b> ; 713/155; 713/201;						
	380/3	33; 380/270; 380/271; 455/3.05						
(58)								
	380/277	7, 279; 713/154, 155, 163, 201;						

#### (56)**References Cited**

## U.S. PATENT DOCUMENTS

5	199 072	Α	3/1993	White et al.	380/44

455/3.01, 3.02, 3.05, 3.06

5,309,516 A		5/1994	Takaragi et al	380/45
5,539,824 A	*	7/1996	Bjorklind et al	380/21
5,668,880 A	*	9/1997	Alajajian	380/49

## FOREIGN PATENT DOCUMENTS

EP	WO 95/12942 A1	5/1995	H04L/12/44
EP	WO 96/04734 A1	2/1996	H04L/12/28

<sup>\*</sup> cited by examiner

Primary Examiner—Justin T. Darrow (74) Attorney, Agent, or Firm—St. Onge Steward Johnston & Reens LLC

#### (57)**ABSTRACT**

The invention relates to a data communication network suitable for the exchange of data between computers, which network comprises at least one substantially wireless LAN (Local Area Network) and access points distributed over an area of coverage for linking the computers comprised in the minimally one LAN, with the network. The minimally one wireless LAN is virtual and the data traffic with the computers belonging to that particular LAN is individualized by encoding the data exchanged between the computers and the access points by using for each LAN a unique key.

## 7 Claims, 1 Drawing Sheet

